

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

09 1. (currently amended): A polymeric fluorescent substance exhibiting visible fluorescence in solid state, having a polystyrene reduced number-average molecular weight of 1×10^3 to 1×10^8 , and containing one or more repeating units of the following formula (1), the amount of the repeating units of formula (1) being from more than 9 mol% to 100 mol% based on the total amount of all repeating units,



~~in the formula~~ wherein, Ar_1 represents an arylene group having 6 to 60 carbon atoms participating in the conjugation or a divalent heterocyclic compound group having 2 to 60 carbon atoms participating in the conjugation, each Ar_1 independently carrying at least one substituent represented by the below formula (2); and when a plurality of substituents are present on Ar_1 , they may be the same or different; m represents 0 or 1; R_1 and R_2 are independently selected from the group consisting of a hydrogen atom, a linear, branched or cyclic alkyl group having 1 to 20 carbon atoms, an aryl group having 6 to 60 carbon atoms, a heterocyclic compound ~~groups~~ group having 2 to 60 carbon atoms and a cyano group;

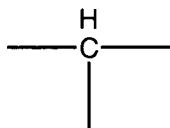


~~in the formula~~ wherein, X represents $-\text{O}-$, $-\text{S}-$, or $-\text{SiR}_3\text{R}_4-$, ~~NR_5- , CO , COO , or SO_2-~~ ; and R_3 , and R_4 ~~and R_5~~ are independently selected from the group consisting of a hydrogen atom, a

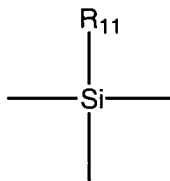
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ag linear, branched or cyclic alkyl group having 1 to 20 carbon atoms, an aryl group having 6 to 60 carbon atoms, a heterocyclic compound ~~groups~~ group having 2 to 60 carbon atoms and a cyano group; Ar₂ represents a heterocyclic compound group having 2 to 60 carbon atoms participating in the conjugation or an aryl group having 6 to 60 carbon atoms participating in the conjugation and having at least one substituent thereon; the substituents on the aryl group ~~include~~ are selected from linear, branched or cyclic alkyl ~~group~~ groups having 5 to 20 carbon atoms, alkoxy ~~groups~~ group carrying a linear, branched or cyclic alkyl group having 1 to 20 carbon atoms, alkylthio ~~groups~~ group carrying a linear, branched or cyclic alkyl group having 1 to 20 carbon atoms, mono-, di- or tri-alkylsilyl ~~group~~ groups having 1 to 60 carbon atoms, mono- or di-alkylamino ~~groups~~ group having 1 to 40 carbon atoms, aryl ~~groups~~ group having 6 to 60 carbon atoms and having least one substituent thereon, aryloxy ~~groups~~ group having 6 to 60 carbon atoms, arylalkyl ~~groups~~ group having 7 to 60 carbon atoms, arylalkoxy ~~groups~~ group having 7 to 60 carbon atoms, arylalkenyl ~~groups~~ group having 8 to 60 carbon atoms, arylalkynyl ~~groups~~ group having 8 to 60 carbon atoms, mono-aryl amino ~~groups~~ group having 6 to 60 carbon atoms, diarylamino ~~groups~~ group having 16 to 60 carbon atoms, and heterocyclic compound ~~groups~~ group having 2 to 60 carbon atoms;

wherein the portion represented by -CH₃ in the substituents on the above Ar₂ may be replaced with -SiR₆R₇R₈, the portion represented by -CH₂- may be replaced with -O-, -S-, or -SiR₉R₁₀-, the portion represented by



may be replaced with



99 the above R₆, R₇, R₈, R₉, R₁₀, and R₁₁ each independently represent a group selected from a linear, branched or cyclic alkyl group having 1 to 20 carbon atoms, an ~~arylene~~ aryl group having 6 to 20 carbon atoms, a heterocyclic compound group having 2 to 20 carbon atoms, and a cyano group; wherein one or more hydrogen atoms of the substituent on the above Ar₂ may be substituted with a fluorine atom; and when a plurality of the substituents are present on Ar₂, they may be the same or different.

2. (canceled).

3. (original): A polymer light emitting device, comprising a pair of electrodes composed of an anode and a cathode at least one of which is transparent or semitransparent, and at least one light emitting layer placed between the electrodes, wherein the polymeric fluorescent substance of Claim 1 or 2 is contained in said light emitting layer.

4. (original): A flat light source obtained by using the polymer light emitting device of Claim 3.

5. (original): A segment display obtained by using the polymer light emitting device of Claim 3.

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6. (original): A dot matrix display obtained by using the polymer light emitting device of Claim 3.

ag 7. (original): A liquid crystal display obtained by using the polymer light emitting device of Claim 3 as a back-light.
